

PB82--108317



U.S.P.H.S. SURVEY

ABEX CORPORATION
American Brakeblok Division
Winchester, Virginia

February, 1972

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U.S. DEPARTMENT OF COMMERCE
NATIONAL TECHNICAL
INFORMATION SERVICE
SPRINGFIELD, VA 22161

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY & HEALTH
 Division of Field Studies & Clinical Investigations
 March 7, 1972 Plant #15

ABEX CORPORATION
 American Brakeblok Division
 Winchester, Virginia

U.S.P.H.S. Survey
 February 7-11, 1972
 Left-Right Paired Samples

SAMPLE #	LOCATION OR JOB	# COUNTS DONE ON SAMPLE	MEAN # FIBERS >5 μ /FIELD	DIFFERENCE BETWEEN PAIRS IN MEAN # FIBERS >5 μ /FIELD	MEAN CONCENTRATION >5 μ FIBERS/ml
1-Left	Wet Mixer	4	.43	.07 15	.73
1-Right		4	.50		.87
2-Left	Compound Operator	2	.28	.15 43	.43
2-Right		2	.43		.64
3-Left	Compound Operator	4	.81	.45 77	1.54
3-Right		4	.36		.69
4-Left	Weigher	2	.95	.10 11	1.91
4-Right		2	.85		1.70
5-Left	Compound Operator	3	1.08	0 0	2.52
5-Right		2	1.08		2.52
6-Left	Strip Grinder	2	1.65	.45 32	2.44
6-Right		2	1.20		1.78
7-Left	Surface Grinder	2	.75	.05 7	1.20
7-Right		3	.70		1.12
8-Left	Strip Grinder	2	.70	.08 11	1.11
8-Right		2	.78		1.22

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SAMPLE #	LOCATION OR JOB	# COUNTS DONE ON SAMPLE	MEAN # FIBERS >5 μ /FIELD	DIFFERENCE BETWEEN PAIRS IN MEAN		MEAN CONCENTRATION >5 μ FIBERS/m ³
				# FIBERS >5 μ /FIELD Δ	%	
9-Left	Strip Grinder	2	1.10	.49	57	1.71
9-Right		4	.61			.94
10-Left	Strip Grinder	3	.88	.20	26	1.43
10-Right		2	.68			1.07
11-Left	Strip Grinder	2	1.10	.10	9	1.77
11-Right		2	1.20			1.92
12-Left	Multiple Drill	2	1.20	.12	10	1.97
12-Right		2	1.32			2.16
13-Left	Multiple Drill	2	.95	.02	2	1.59
13-Right		2	.93			1.54
14-Left	Multiple Drill	2	.48	.05	10	.80
14-Right		3	.53			.90
15-Left	Drill Press	2	.73	.23	37	1.26
15-Right		2	.50			.87
16-Left	Hand Drill Operator	2	.18	.55	120	.30
16-Right		2	.73			1.30
17-Left	Drill Press	2	.58	.13	25	1.00
17-Right		2	.45			.79
18-Left	Branding Machine	2	.60	.15	22	.78
18-Right		2	.75			.97
19-Left*	Hot Press	2	1.73	.22	12	1.64
19-Right*		2	1.95			1.86
20-Left*	Hot Press	2	3.75	.72	21	3.75
20-Right*		2	3.03			3.00

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SAMPLE #	LOCATION OR JOB	# COUNTS DONE ON SAMPLE	MEAN # FIBERS >5 μ /FIELD	DIFFERENCE BETWEEN PAIRS IN MEAN		MEAN CONCENTRATION >5 μ FIBERS/ml
				# FIBERS >5 μ /FIELD Δ	%	
21-Left*	Hot Press	2	2.68	.45	16	2.69
21-Right*		2	3.13			3.17
22-Left*	Preformer	2	1.98	.73	45	2.97
22-Right*		2	1.25			1.88
23-Left	Extruder Operator **	2	.30	.05	16	.45
23-Right		2	.35			.50

* Heavy Particulate Background

** Only one of group that is left handed, #23

Have 11 pairs where the left is greater than the right
 Have 11 pairs where the right is greater than the left
 Have 1 pair where exactly the same

23 paired samples total

If a difference of .10 fibers/field is considered not significant,
 then have: 12 pairs not significantly different
 6 pairs with the left side higher
 5 pairs with the right side higher

